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PTO/SB/05 (4/98)  
Approved for use through 09/30/2000. OMB 0651-0032  
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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# UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 C.F.R. § 1.53(b))

Attorney Docket No. NC 83,068

First Inventor or Application Identifier Lyons et al.

Title METHOD TO PREPARE DEFECTIVE METAL OXIDES WITH INCREASED SPECIFIC CAPACITY

Express Mail Label No.

## APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

1. ☒ \* Fee Transmittal Form (e.g., PTO/SB/17)  
(Submit an original and a duplicate for fee processing)
2. ☒ Specification [Total Pages 13]  
(preferred arrangement set forth below)
  - Descriptive title of the invention
  - Cross References to Related Applications
  - Statement Regarding Fed sponsored R & D
  - Reference to Microfiche Appendix
  - Background of the invention
  - Brief Summary of the invention
  - Brief Description of the Drawings (if filed)
  - Detailed Description
  - Claim(s)
  - Abstract of the Disclosure
3. ☒ Drawing(s) (35 U.S.C. 113) [Total Sheets 3]
4. Oath or Declaration [Total Pages 16]
  - a. ☐ Newly executed (original or copy)
  - b. ☐ Copy from a prior application (37 C.F.R. § 1.63(d))  
(for continuation/divisional with Box 16 completed)
    - i. ☐ DELETION OF INVENTOR(S)  
Signed statement attached deleting inventor(s) named in the prior application, see 37 C.F.R. §§ 1.63(d)(2) and 1.33(b).

\* NOTE FOR ITEMS 1 & 13: IN ORDER TO BE ENTITLED TO PAY SMALL ENTITY FEES, A SMALL ENTITY STATEMENT IS REQUIRED (37 C.F.R. § 1.27), EXCEPT IF ONE FILED IN A PRIOR APPLICATION IS RELIED UPON (37 C.F.R. § 1.28).

ADDRESS TO: Assistant Commissioner for Patents  
Box Patent Application  
Washington, DC 20231

5. ☐ Microfiche Computer Program (Appendix)
6. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)
  - a. ☐ Computer Readable Copy
  - b. ☐ Paper Copy (identical to computer copy)
  - c. ☐ Statement verifying identity of above copies

## ACCOMPANYING APPLICATION PARTS

7. ☐ Assignment Papers (cover sheet & document(s))
8. ☐ 37 C.F.R. § 3.73(b) Statement (when there is an assignee) ☐ Power of Attorney
9. ☐ English Translation Document (if applicable)
10. ☐ Information Disclosure Statement (IDS)/PTO-1449 ☐ Copies of IDS Citations
11. ☐ Preliminary Amendment
12. ☒ Return Receipt Postcard (MPEP 503)  
(Should be specifically itemized)
13. ☐ \* Small Entity Statement(s) ☐ Statement filed in prior application, (PTO/SB/09-12) Status still proper and desired
14. ☐ Certified Copy of Priority Document(s) (if foreign priority is claimed)
15. ☐ Other:

16. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment:

☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No. \_\_\_\_\_

Prior application information: Examiner \_\_\_\_\_

Group / Art Unit: \_\_\_\_\_

For CONTINUATION or DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 4b, is considered a part of the disclosure of the present application and is hereby incorporated by reference. The incorporation can only be relied upon when the information was not inadvertently omitted from the submitted application parts.

## 17. CORRESPONDENCE ADDRESS

☐ Customer Number or Bar Code Label

26384

PATENT TRADEMARK OFFICE

(Insert Customer No. or Attach bar code label here)

or ☒ Correspondence address below

Name

Address

Code 1008.2, Naval Research Laboratory  
4555 Overlook Ave., S.W.

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State

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Telephone

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Name (Print/Type)

John J. Karasek

Registration No. (Attorney/Agent)

36,182

Signature

Date

1/16/02

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Box Patent Application, Washington, DC 20231.

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**FEE TRANSMITTAL**  
**for FY 2002**

Patent fees are subject to annual revision.

**TOTAL AMOUNT OF PAYMENT**

(\$ 992.00)

**Complete if Known**

Application Number	not yet assigned
Filing Date	not yet assigned
First Named Inventor	Lyons et al.
Examiner Name	Not yet assigned
Group Art Unit	Not yet assigned
Attorney Docket No.	83,068

**METHOD OF PAYMENT**

- 1.
- ☒
- The Commissioner is hereby authorized to charge indicated fees and credit any overpayments to

Deposit Account Number	50-0281
Deposit Account Name	

- ☒
- Charge Any Additional Fee Required Under 37 CFR 1.16 and 1.17

☐ Applicant claims small entity status, See 37 CFR 1.27

- 2.
- ☐
- Payment Enclosed:

☐ Check ☐ Credit card ☐ Money Order ☐ Other**FEE CALCULATION****1. BASIC FILING FEE**

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid
101 740 201 370		Utility filing fee	740.00
106 330 206 165		Design filing fee	
107 510 207 255		Plant filing fee	
108 740 208 370		Reissue filing fee	
114 160 214 80		Provisional filing fee	

**SUBTOTAL (1)** (\$ 740)**2. EXTRA CLAIM FEES**

Total Claims	Extra Claims	Fee from below	Fee Paid
16	-20- =	0	0
6	-3" = 3	84.00	252
Multiple Dependent			

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description
103 18 203 9		Claims in excess of 20
102 84 202 42		Independent claims in excess of 3
104 280 204 140		Multiple dependent claim, if not paid
109 84 209 42		** Reissue independent claims over original patent
110 18 210 9		Reissue claims in excess of 20 and over original patent

**SUBTOTAL (2)** (\$ 252)

\*\*or number previously paid, if greater, For Reissues, see above

**FEE CALCULATION (continued)****3. ADDITIONAL FEES**

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid
105 130 205 65		Surcharge - late filing fee or oath	
127 50 227 25		Surcharge - late provisional filing fee or cover sheet	
139 130 139 130		Non-English specification	
147 2,520 147 2,520		For filing a request for ex parte reexamination	
112 920* 11 2 920*		Requesting publication of SIR prior to Examiner action	
113 1,840* 113 1,840*		Requesting publication of SIR after Examiner action	
115 110 215 55		Extension for reply within first month	
116 400 216 200		Extension for reply within second month	
117 920 217 460		Extension for reply within third month	
118 1,440 218 720		Extension for reply within fourth month	
128 1,960 228 980		Extension for reply within fifth month	
119 320 219 160		Notice of Appeal	
120 320 220 160		Filing a brief in support of an appeal	
121 280 221 140		Request for oral hearing	
138 1,510 138 1,510		Petition to institute a public use proceeding	
140 110 240 55		Petition to revive - unavoidable	
141 1,280 241 640		Petition to revive - unintentional	
142 1,280 242 640		Utility issue fee (or reissue)	
143 460 243 230		Design issue fee	
144 620 244 310		Plant issue fee	
122 130 122 130		Petitions to the Commissioner	
123 50 123 50		Processing fee under 37 CFR 1.17(c)	
126 180 126 180		Submission of Information Disclosure Stmt	
581 40 581 40		Recording each patent assignment per property (times number of properties)	
146 740 246 370		Filing a submission after final rejection (37 CFR § 1.129(a))	
149 740 249 370		For each additional invention to be examined (37 CFR § 1.129(b))	
179 740 279 370		Request for Continued Examination (RCE)	
169 900 169 900		Request for expedited examination of a design application	

Other fee (specify) \_\_\_\_\_

\*Reduced by Basic Filing Fee Paid

**SUBTOTAL (3)** (\$ )**SUBMITTED BY**

Name (Print/Type) John J. Karasek

Registration No. 36,182  
(Attorney/Agent)**Complete (if applicable)**

Telephone 202-404-1552

Signature

Date

1/16/02

**WARNING:** Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

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204625-01100

**PATENT APPLICATION**  
Navy Case No. 83,068

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application:  
Lyons et al.

For: "METHOD TO PREPARE DEFECTIVE METAL OXIDES WITH INCREASED  
SPECIFIC CAPACITY"

NOTICE OF FILING WITHOUT OATH OR DECLARATION BY APPLICANT

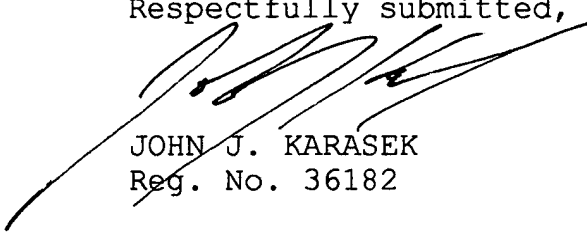
Honorable Commissioner of Patents and Trademarks  
Washington, D.C. 20231

Sir:

Please take notice that this application is being filed pursuant to 37 C.F.R. 153(d) without the oath or declaration of the Applicants. This is being done to secure an early filing date.

Upon the Notice from the Patent Office required by 1.53(d), Applicants will file the required oath or declarations, and pay the surcharge as set forth in 37 C.F.R. 1.16(e).

Respectfully submitted,

  
JOHN J. KARASEK  
Reg. No. 36182

JJK/bsp

10046295-011602

PATENT APPLICATION  
Navy Case No. 83,068

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

## APPLICATION FOR LETTERS PATENT

TO ALL WHOM IT MAY CONCERN:

BE IT KNOWN THAT Karen Swider Lyons and Debra R. Rolison who are citizens of the United States of America, and are residents of, Arlington. VA, invented certain new and useful improvements in "METHOD TO PREPARE DEFECTIVE METAL OXIDES WITH INCREASED SPECIFIC CAPACITY" of which the following is a specification:

Please Contact Preparer:  
Stephen T. Hunnius  
Reg. No. 48,304  
Tel: 202-404-1558

2025-01-15 10:46:29